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## NOTICE OF ALLOWANCE AND FEE(S) DUE

38155

7590

12/23/2009

HASSE & NESBITT LLC 8837 CHAPEL SQUARE DRIVE SUITE C CINCINNATI, OH 45249

EXAMINER					
PRICE, NATHAN R					
ART UNIT	PAPER NUMBER				

3763

DATE MAILED: 12/23/2009

ı	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/597,991	06/21/2007	Eric James Wall	CHM-021M	8880

TITLE OF INVENTION: INJECTION DEVICE FOR ADMINISTERING A VACCINE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	03/23/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

ppropriate. All further ndicated unless correcte naintenance fee notifica	ed below or directed oth	ng the Patent, advance on herwise in Block 1, by (a	rders and notification  a) specifying a new co	of m orresp	naintenance fees wi pondence address;	ll be and/or	mailed to the current of (b) indicating a separ	correspondence address as ate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Fee(s	s) Transmittal. This rs. Each additional	certif paper	icate cannot be used fo	domestic mailings of the or any other accompanying it or formal drawing, must
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HASSE & NES 8837 CHAPEL S SUITE C	SBITT LLC SQUARE DRIVE			I her State addre trans	eby certify that this es Postal Service wi essed to the Mail smitted to the USPT	s Fee(s ith suf Stop O (57	s) Transmittal is being ficient postage for first ISSUE FEE address a 1) 273-2885, on the da	deposited with the United class mail in an envelope above, or being facsimile te indicated below.
CINCINNATI, (	ОН 45249							(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO:	RNEY DOCKET NO.	CONFIRMATION NO.
10/597,991	06/21/2007		Eric James Wall				CHM-021M	8880
		FOR ADMINISTERING						
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300		\$0		\$1055	03/23/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS					
PRICE, NA		3763	604-187000					
Change of correspondence address or indication of "Fee Address" (37 FR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2. For printing on the patent front page, list  (I) the names of up to 3 registered patent attorneys or agents OR, alternatively,  (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
PLEASE NOTE: Unl recordation as set forti (A) NAME OF ASSIG	ess an assignee is identi h in 37 CFR 3.11. Comp GNEE		data will appear on the Tasubstitute for filing (B) RESIDENCE: (C	ne pa g an a	ntent. If an assigne assignment. and STATE OR CO	DUNT	RY)	cument has been filed for
			• ,					up entity 🔲 Government
a. The following fee(s) a	are submitted:	4t	o. Payment of Fee(s): (  A check is enclose		se first reapply an	y prev	iously paid issue fee s	hown above)
Publication Fee (No small entity discount permitted)			Payment by credit card. Form PTO-2038 is attached.					
Advance Order - #	# of Copies		The Director is he overpayment, to D	reby Depos	authorized to charg sit Account Number	e the i	required fee(s), any def (enclose an	iciency, or credit any extra copy of this form).
a. Applicant claim	<b>tus</b> (from status indicated s SMALL ENTITY statu	is. See 37 CFR 1.27.		_	-		「ITY status. See 37 CF	
OTE: The Issue Fee and terest as shown by the I	d Publication Fee (if requeecords of the United Sta	uired) will not be accepted tes Patent and Trademark	d from anyone other the Office.	an th	ne applicant; a regis	tered a	nttorney or agent; or the	e assignee or other party in
Authorized Signature					Date			
Typed or printed name					Registration No	o		
n application. Confident abmitting the completed his form and/or suggesti	tiality is governed by 35 application form to the ons for reducing this but irginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the	1.14. This collection is depending upon the i e Chief Information O	s esti ndivi ffice:	imated to take 12 m idual case. Any cor r. U.S. Patent a <b>n</b> d T	inutes nment 'raden	to complete, including s on the amount of time park Office, U.S. Depar	by the USPTO to process) g gathering, preparing, and the you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450,

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/597,991	06/21/2007	Eric James Wall	CHM-021M	8880
38155 75	90 12/23/2009		EXAM	INER
HASSE & NESB	ITT LLC		PRICE, NA	ATHAN R
8837 CHAPEL SQ	UARE DRIVE		ART UNIT	PAPER NUMBER
SUITE C CINCINNATI, OH 45249			3763 DATE MAILED: 12/23/200	9

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 137 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 137 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/597,991	WALL ET AL.
Notice of Allowability	Examiner	Art Unit
	NATHAN R. PRICE	3763
	NATHAN R. PRICE	3703
The MAILING DATE of this communication appea.  All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. <b>THIS</b>
1. $\boxtimes$ This communication is responsive to <u>communication filed</u> 1	<u>12/07/2009</u> .	
2. X The allowed claim(s) is/are 1,3-10,12-15,17-20 and 22.		
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> </ul>		
<ol><li>Certified copies of the priority documents have</li></ol>	been received in Application No	·
<ol><li>Copies of the certified copies of the priority do</li></ol>	cuments have been received in this	national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.	
(a) 🔲 including changes required by the Notice of Draftspers	son's Patent Drawing Review ( P <b>T</b> O-	948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s)	5 Notice of Informal F	Patent Application
<ol> <li>Notice of References Cited (PTO-892)</li> <li>D Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	5. ☐ Notice of Informal F 6. ☐ Interview Summary	• •
	Paper No./Mail Dat	te
<ol> <li>Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date</li> </ol>	7. Examiner's Amendr	ment/Comment
4.   Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9.	
/N. R. P./		
Examiner, Art Unit 3763		
	I	

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Art Unit: 3763

## **DETAILED ACTION**

## Response to Amendment

1. This office action is responsive to the amendment filed on November 24, 2009. As directed by the amendment: claims 1, 4, 10, 13, 17, and 20 have been amended, claims 2, 11, 16, and 21 have been cancelled, and new claim 22 has been added. Thus, claims 1, 3-10, 12-15, 17-20, and 22 are presently pending in this application.

#### Terminal Disclaimer

2. The terminal disclaimer filed on December 7, 2009 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of application numbers 10/605,187 (US 7637891) and 10/597,997 has been reviewed and is accepted. The terminal disclaimer has been recorded.

# 112, 6<sup>th</sup> Acknowledgements

- 3. With regard to Applicant's "means for retaining a reservoir containing an injectable liquid composition" and "means for providing liquid communication between the retained reservoir and the injection needle" of claim 1, the language appears to be an attempt to invoke 35 USC 112, 6<sup>th</sup> paragraph interpretation of the claims. A claim limitation will be interpreted to invoke 35 U.S.C. 112, sixth paragraph, if it meets the following 3-prong analysis:
  - (A) the claim limitations must use the phrase "means for" or "step for;"
  - (B) the "means for" or "step for" must be modified by functional language; and

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Art Unit: 3763

(C) the phrase "means for" or "step for" must not be modified by sufficient structure, material or acts for achieving the specified function.

In the instant case, applicant appears to have met the limitations set forth in MPEP § 2181, and examiner has turned to the specification for clarification.

In the specification, applicant defines the "means for retaining..." as a threaded engagement (see par. 0016, 0104, 0109) and the "means for providing liquid communication..." as a penetrable membrane and an inlet end of an injection needle for penetrating the membrane (see par. 0016). Accordingly, the examiner is interpreting the "means for retaining..." and "means for providing liquid communication..." to encompass these structures and their equivalents. Equivalent structures may include those that perform the function specified in the claim, structures that are not excluded by any specific definition provided in the specification for an equivalent, or is a structural equivalent of the corresponding element disclosed in the specification. See MPEP 2183.

- 4. With regard to Applicant's "means for liquid communication between the reservoir and the injection needle" of claim 10, the language appears to be an attempt to invoke 35 USC 112, 6<sup>th</sup> paragraph interpretation of the claims. A claim limitation will be interpreted to invoke 35 U.S.C. 112, sixth paragraph, if it meets the following 3-prong analysis:
  - (A) the claim limitations must use the phrase "means for" or "step for;"
  - (B) the "means for" or "step for" must be modified by functional language; and

(C) the phrase "means for" or "step for" must not be modified by sufficient structure, material or acts for achieving the specified function.

In the instant case, applicant appears to have met the limitations set forth in MPEP § 2181, and examiner has turned to the specification for clarification.

In the specification, Applicant defines the "means for liquid communication..." as a penetrable membrane and an inlet end of an injection needle for penetrating the membrane (see par. 0016). Accordingly, the examiner is interpreting the "means for liquid communication..." to encompass this structure and its equivalents. Equivalent structures may include those that perform the function specified in the claim, structures that are not excluded by any specific definition provided in the specification for an equivalent, or is a structural equivalent of the corresponding element disclosed in the specification. See MPEP 2183.

### Reasons for Allowance

- 5. Claims 1, 3-10, 12-15, 17-20, and 22 are allowed over the prior art of record.
- 6. The following is an examiner's statement of reasons for allowance: the claims in this application have been allowed because the prior art of record fails to disclose either singly or in combination the claimed device.
- 7. The closest prior art of record is Miskinyar (US 5527287).
- 8. Regarding claims 1 and 10, Miskinyar fails to teach among all the limitations or render obvious an injection device that is intended for a painless intramuscular injection that has a housing, a needle with a specific diameter to help with flow rate and reduced trauma, a means for retaining a reservoir, a means for liquid communication, and a

manually powered spring that exerts pressure upon the injectable liquid composition within the retained reservoir to inject the injectable liquid at a substantially constant volumetric flow rate of about 0.5  $\mu$ L/s to about 20  $\mu$ L/s. The flow rate helps provide a painless injection because of the rate in which the medicament is injected into the patient and at the constant volume during injection.

9. The Examiner has also invoked 35 U.S.C. 112, 6<sup>th</sup> paragraph for the "means for" language present in the claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NATHAN R. PRICE whose telephone number is (571)270-5421. The examiner can normally be reached on Monday-Thursday, 9:00 a.m. - 5:00 p.m. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nicholas Lucchesi can be reached on 571-272-4977. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 3763

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/N. R. P./ Examiner, Art Unit 3763 /Nicholas D Lucchesi/ Supervisory Patent Examiner, Art Unit 3763